HeartSine™

samaritan® PAD
USERS MANUAL

H017-001-030-4

ENGLISH

Information in this document is subject to change without notice and does not represent a commitment on behalf of HeartSine Technologies. No part of this manual may be reproduced or transmitted in any form or by any means, electrical or mechanical, including photocopying and recording for any purpose without the express written permission of HeartSine Technologies.

Copyright© 2006 HeartSine Technologies. All rights reserved.

"*samaritan*®" is a registered trademark of HeartSine Technologies.

"*Saver*™", and "*SCOPE*" are trademarks of HeartSine Technologies.

All other trademarks and registered trademarks are the property of their respective owners.

ABOUT THIS EDITION

The information in this manual applies to the HeartSine Technologies samaritan® PAD automatic external defibrillator. Information in this document is subject to change without notice and does not represent a commitment on behalf of HeartSine Technologies.

TABLE OF CONTENT

Available PAD Configuration	4
CPR Guideline Comparsion	4
Introduction	5
Sudden Cardiac Arrest	5
Heart Rhythm	5
Detecting Fibrillation	5
Intended Users	5
Training	5
Your Samaritan® PAD	6
Unpacking Your PAD	6
PAD Features	6
Please Note	6
Preparing for Use	7
Installation	7
Where to Store Your PAD	7
Self Test	8
Replace the Pad-Pak	8
Maintenance	8
Status Indicator	9
Soft Carry Case	9
Cleaning	9
How to Use the PAD	10
Pre Defibrillation Action	10
CPR Fundamentals	10
CPR Guidelines	11
Performing Defibrillation	12
Step-by-Step Introduction	12 - 15
After Using the PAD	16
Troubleshooting	16
Warnings	17
Incident Notification	17
Glossary	18
Abbreviations	18
Product List	19

AEDSuperstore® an ALLIED 100™ company

Icons used in this manual

NOTE

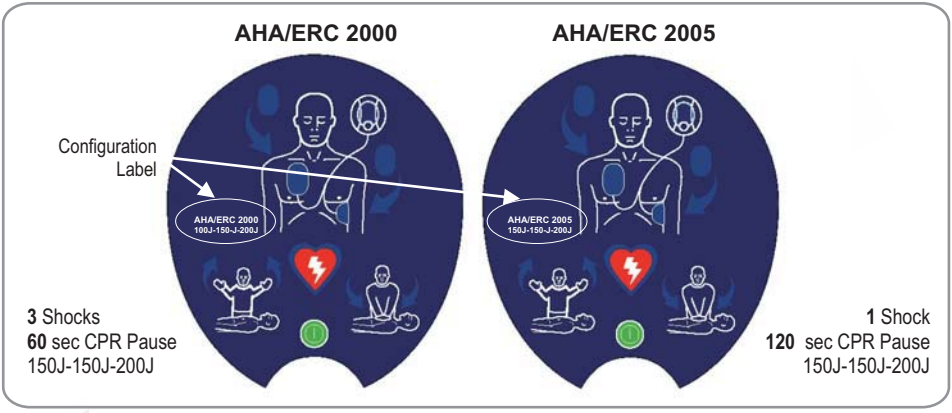
WARNING

VOICE PROMPT

TO DO

AVAILABLE SAMARITAN® PAD CONFIGURATION

HeartSine Technologies provides you with a fully configureable samaritan® PAD system to allow you to comply with your chosen SCA treatment protocol. Our current devices can be configured to be compliant with the **2000** or **2005** version of the AHA/ERC guidelines on Cardiopulmonary Resuscitation (CPR) and Emergency Cardiovascular Care (ECC).
You should have been trained in the appropriate version of the AHA/ERC guidelines and the use of your device configuration.
Contact HeartSine or your authorised HeartSine distributor for further information.



CPR GUIDELINES 2005 VERSUS 2000

In December 2005 both the American Heart Association (AHA) and the European Resuscitation Council (ERC) in collaboration with the International Liaison Committee on Resuscitation (ILCOR) released new guidelines for Cardiopulmonary Resuscitation (CPR) and Emergency Cardiovascular Care (ECC). These 2005 guidelines superseded the previous guidelines released in 2000 and contained several changes to the recommended procedures for both CPR and automatic external defibrillation. While the AHA/ERC 2005 guidelines are based on the latest research and represent what is believed to be best practice by both the AHA and ERC both organisations state that the 2000 guidelines continue to offer safe therapy for patients suffering from Sudden Cardiac Arrest (SCA).

Main changes in defibrillation therapy from 2000 to 2005:

Treat ventricular fibrillation/pulseless ventricular tachycardia (VF/VT) with a *single shock*, followed by *immediate resumption of CPR* (*2 ventilations and* 30 compressions). Do *not reassess the rhythm or feel for a pulse.* After 2 min of CPR *(= 5 cycles of 30:2)*, check the rhythm and give another shock (if indicated). The recommended initial energy for biphasic defibrillators is *150J-200J*. Give second and subsequent shocks at 150J or greater. The 2000 guidelines recommended up to *3* shocks followed by *1 minute of CPR* (15 compressions to 1 ventilation). Further details can be found on the AHA and ERC websites.

The samaritan® PAD manufactured in 2006 can be factory set to perform to the AHA/ERC 2005 or the AHA/ERC 2000 guidelines as required by users.

INTRODUCTION

The HeartSine samaritan® PAD is an automatic external defibrillator (AED) used for the fast delivery of defibrillation electric shock therapy to resuscitate victims of sudden cardiac arrest (SCA).

SUDDEN CARDIAC ARREST (SCA)
Sudden cardiac arrest is a condition in which the heart suddenly stops pumping effectively due to a malfunction of the heart's electrical system. Often victims of SCA have no prior warning signs or symptoms. SCA can also occur in people with previously diagnosed heart conditions. Survival for an SCA victim depends on immediate cardio-pulmonary resuscitation (CPR). The use of an external defibrillator within the first few minutes of collapse can greatly improve the patients' chances of survival. Heart attack and SCA are not the same, though sometimes a heart attack can lead to a SCA. If you are experiencing symptoms of a heart attack (pain, pressure, shortness of breath, squeezing feeling in chest or elsewhere in the body) seek emergency medical attention immediately.

HEART RHYTHM
The normal electrical rhythm by which the heart muscle contracts to create blood flow around the body is known as Normal Sinus Rhythm (NSR). Ventricular Fibrillation (VF) caused by chaotic electrical signals in the heart is often the cause of SCA, but an electrical shock can be administered to re-establish normal sinus rhythm. This treatment is called defibrillation. The samaritan® PAD is a device designed to automatically detect ventricular fibrillation (VF) and perform defibrillation on victims of sudden cardiac arrest.

DETECTING FIBRILLATION
The electrical rhythm by which the heart muscle contracts can be detected and used for medical diagnosis and the resulting reading is called an Electrocardiogram (ECG). The PAD has been designed to analyse a patients ECG in order to detect ventricular fibrillation (VF) in the heart. If ventricular fibrillation (VF) is detected the samaritan® PAD will deliver a carefully engineered electrical shock designed to stop the chaotic electrical activity experienced within the heart muscle during SCA. This may allow the victim's heart to return to a normal sinus rhythm.

INTENDED USERS
The samaritan® PAD is intended for use by those who have been trained in its operation. It is highly recommended that any potential user receives training in cardiopulmonary resuscitation (CPR), emergency cardiovascular care (ECC) and/or the use of an AED (specifically the use of the samaritan® PAD). Many training organizations offer a course that combines CPR and defibrillator (CPR-D) use. Course lengths and detail covered vary but most basic courses can be completed in one day. For information on how to get training contact your local authorised distributor or HeartSine Technologies directly.

TRAINING
SCA is a condition requiring immediate emergency medical intervention. This intervention, due to the nature of the condition, can be performed prior to seeking the advice of a physician. In order to properly diagnose this condition HeartSine recommends that all potential users of the samaritan® PAD as a minimum, are fully trained in cardiopulmonary resuscitation (CPR), basic life support (BLS) and in particular the use of an Automated External Defibrillator, specifically the PAD. It is also recommended that this training be kept up to date by means of regular refresher courses as and when recommended by your training provider. If potential users of the PAD are not trained in these techniques contact your HeartSine dealer or HeartSine directly either of whom can arrange for training to be provided. Alternatively contact your local government health department for information on certified training organisations in your region.

The samaritan® PAD must be used by a person trained in its use.

Included with this packaging are training materials to help familiarize people trained in the use of AEDs with the operation of the PAD.

There is limited published data on defibrillators used by minimally trained rescuers in the home. It is not clear what safety issues may occur from defibrillator use in such an environment.

"Check with local government health department for Information about any requirements associated with ownership and use of a defibrillator in the region where it is to be used".

YOUR SAMARITAN® PAD

UN-PACKING YOUR SAMARITAN® PAD

Open the outer box, remove the PAD and all accessories.

- Fill out the Warranty/Registration card and send to HeartSine Technologies.
- Read this User Manual.
- Review the product training materials (USA).
- Ensure all potential users are suitably trained.
- Place the HeartSine samaritan® PAD into service.

PLEASE NOTE

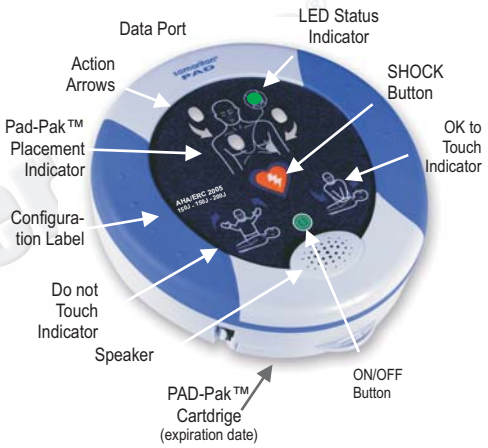
HeartSine Technologies or the authorised distributor are not obliged to carry out service/repairs under warranty if:

1. Unauthorized modifications have been made to the device.
2. Non-standard components are used.
3. The user has not used the device in accordance with the indications for use or the instructions provided in this manual.
4. The serial number of the apparatus is removed, defaced, misused or altered.
5. The device, electrodes or batteries are stored or used operationally outside of environmental specifications.
6. Pad-Pak™ packaging is not returned.

Any claims made under warranty must be *directed via your dealer* from whom the device was originally purchased. The dealer, before carrying out service under warranty, requires evidence of purchase.

The product must be used in accordance with the user manual and for the purpose for which it was intended. If you have a query please contact *support@HeartSine.com* for assistance.

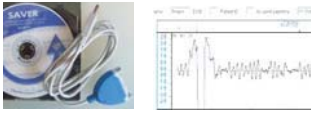
SAMARITAN® PAD FEATURES



5 year PAD warranty
3 year PAD-PAK™ shelf-time after manufacturing date

Data Port

Optional Data Management Package



Saver Software & USB Cable

PREPARING YOUR SAMARITAN® PAD FOR USE

PAD-PAK™ INSTALLATION

The Pad-Pak™ includes the battery and defibrillation electrode pads in **one** product. This allows for a single expiration date, for easy consumable management.

INSTALL 1

Remove Pad-Pak™ from its packaging.

Place the PAD and the Pad-Pak™ on a flat surface.

Push Pad-Pak™ into the opening and listen for the "click" sound to ensure it is properly inserted.

Once the Pad-Pak™ is installed properly the PAD STATUS INDICATOR will begin to blink every 5 seconds.

INSTALL 2

CHECK DEVICE is working optimally.

- PUSH the **ON** Button. Ensure you can hear the voice prompts:
- ***CALL for medical assistance***
- ***Remove clothing from patients chest to expose bare skin***

- Switch **OFF** by pressing the Button

INSTALL 3

Place the samaritan® PAD into its Soft Carry Case. For alternative transport cases ask HeartSine or your distributor.

INSTALL 4

Put into a wall case or safe visible location.

Wall cases differ in some countries. Ask HeartSine or your authorised distributor.

WHERE TO STORE YOUR PAD

The PAD should be kept in a convenient central area. Place it near a telephone so that the rescuer can call Emergency Medical Services and retrieve the PAD without wasting time. Some important points to remember when storing:

- Store the PAD in a suitable location for easy access.

- Do not lock the location where PAD is being placed.
- Do store the PAD in a clean and dry environment.

Make all necessary arrangements to ensure that the device is accessible at all times. Inform any possible users of the location of the samaritan® PAD.

PREPARING YOUR PAD FOR USE

SELF TEST

The samaritan® PAD includes an automatic self test which is performed on a weekly basis. The self test program will run automatically and requires *no* user interaction.

Upon completion of self test the PAD will emit a *"beep"*. The self test program will test your PAD and ascertain if its basic functions are running. Self test is not able to determine if the battery and defibrillation pads currently inserted in samaritan PAD are within their use by date.

You must remember to check the expiration date on the Pad-Pak™ regularly.

Check that the PAD status indicator can be seen easily. Ensure that it is flashing approximately once every 5 seconds.

WHEN TO REPLACE THE PAD-PAK™

The battery lifetime in use can be up to *6* hours monitoring or *30* shocks or a combination of both. A Pad-Pak™ in the stand by mode (inserted into the PAD) has a shelf-life indicated by the expiration date (typically 3 years from manufacture). Replacement of the battery and defibrillation pack must be carried out if:

- the expiry date of the Pad-Pak™ has been exceeded
- If the Pad-Pak™ has been used (is a single use item) it must be replaced with a new Pad-Pak™ cartdrige.

If the status indicator on the PAD is not flashing you may need to replace the Pad-Pak™.

For diagnosis of the reason for status indicator is not flashing please refer to the troubleshooting section of this manual.

HOW TO REPLACE A PAD-PAK™

1. Take the replacement Pad-Pak™ from its protective bag.
2. Remove the old Pad-Pak™ which is to be replaced.
3. Slide the replacement Pad-Pak™ into the slot on the underside of the samaritan® PAD until it clicks.
4. Push the Pad-Pak™ firmly to ensure it is fully inserted.
5. *Check status indicator*. If the Pad-Pak™ has been inserted correctly, Status Indicator flashes approximately every 5 seconds.
6. If necessary inform relevant safety officer or person responsible for maintenance of the PAD.
7. Update the relevant records to show the date that the replacement Pad-Pak™ was placed into service.

MAINTENANCE

HeartSine recommends users perform regular maintenance checks. A suggested maintenance check would be.

1. *Check the Status Indicator*. If the Status Indicator is not flashing a problem has been detected. Refer to the troubleshooting section of this manual.

2. *Check the expiration date* of the *Pad-Pak*™ currently inserted into the PAD. If the Pad-Pak™ has exceeded its use by date, remove it from the PAD and replace with a new Pad-Pak™. Contact your local authorised HeartSine distributor for replacements.

3. *Check supplies, accessories and spares* for damage or expiration. Replace any accessories found to be damaged or that have exceeded their expiration date.

4. *Check the exterior* of the samaritan® PAD for cracks or other signs of damage. Contact your authorised HeartSine distributor if any damage is found.
5. Check that trained responders are aware of the PADs location and that it is easily accessible for those Responders at all times.
6. Ensure all trained responders have up to date training for both CPR and AED use. For recommended retraining intervals please consult the organisation or body used to provide the Training.

STATUS INDICATOR

The samaritan® PAD includes a status indicator. This is an indicator which will flash approximately once every five seconds. When it is flashing it is an indication that the PAD is ready for use.

If this indicator is not flashing then there is a problem with your samaritan® PAD. If this is the case please refer to the trouble-shooting section for further guidance and fault finding advice.

This is an indicator which will flash ~ once every five seconds. When it is flashing it is an indication that the PAD is ready for use.

SAMARITAN® PAD SOFT CARRY CASE

The samaritan® PAD and samaritan® PAD soft carry case have been designed to allow the rescuer to use the samaritan® PAD without having to open the carry case.

FRONT

BACK

Clear window for quick start card.

A clear plastic cover protects the samaritan® PAD while allowing the rescuer to operate the unit. If your PAD is stored in the soft carry case it is not necessary to remove it from the case to operate it.

Pull GREEN Tab to remove electrodes.

CLEANING YOUR PAD

To clean the samaritan® PAD wipe the device with a soft cloth that has been dampened by one of the following:

- Soapy water.
- Isopropyl alcohol (70% solution).

Do not immerse any part of the PAD in water or any type of fluid. Contact with fluids may seriously damage the device or cause fire or shock hazard.

Do not clean the samaritan® PAD with abrasive materials, cleaners or solvents.

AEDSuperstore® an ALMED 100™ company

HOW TO USE THE PAD

The HeartSine samaritan® PAD is designed for the treatment of sudden cardiac arrest (SCA). It should only be used to treat someone who may be a victim of a SCA and is:

- **unresponsive to stimulus,**
- **not breathing,**
- **exhibiting no signs of life.**

If the person is unresponsive but *you are unsure* that they have suffered from a SCA *begin CPR*. When appropriate apply the defibrillator and follow the audible instructions.

The PAD will only administer a shock if it is needed. A voice prompt will tell you when to press the shock button to administer defibrillation therapy.

The samaritan® PAD should not be used on someone who is responsive when shaken or breathing normally.

PRE DEFIBRILLATION ACTION

Prior to using a PAD it is advised to perform the following checks and actions in order to prepare the patient:

- Remove clothing to expose bare chest.
- If excessively hairy shave hair from areas to which defibrillation pads are to be applied.
- Ensure that the patient chest is dry. If necessary dry chest area.
- Ensure no rescuer or bystander are in contact with the patient while the PAD is assessing the patients heart rhythm or while defibrillation shock is being applied.

CPR FUNDAMENTALS

The following is a brief overview of the fundamentals of CPR for lay rescuers as advised by both the American Heart Association (AHA) and the European Resuscitation Council (ERC) in their 2005 published Guidelines for CPR and ECC. This is intended only as a quick reference for trained CPR providers. HeartSine recommend that all potential users of the samaritan® PAD are trained, by a competent training organisation in both CPR and PAD use, prior to placing of a samaritan® PAD into service.

CPR GUIDELINES 2005

CALL 911/112 get AED

Watch, feel, listen

2 breaths - 30 compr.

Alternate with second person after one cycle or 2 minutes

PERSON NOT RESPONSIVE?
NO SIGNS OF LIFE?

Adress person & shake on shoulder!

Engage other people to help you
and alternate CPR!

OPEN THE AIRWAY ...
CHECK FOR BREATHING!

2 breaths, if necessary

PERFORM CPR...

... until an AED is available
OR arrival of emergency physician

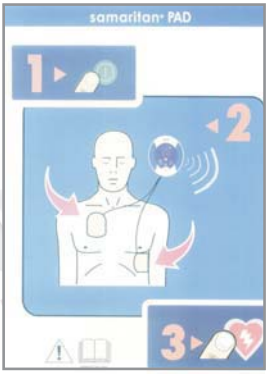
If AED AVAILABLE switch ON & follow instructions

ANALYSIS SHOCK DECISION

YES → **DELIVER SHOCK** → **CONTINUE CPR FOR 2 MINUTES/ 5 CYCLES**

NO → **CONTINUE CPR FOR 2 MINUTES/ 5 CYCLES**

Quick Card, User Instruction



EDsuperstore an ALLIED

PERFORMING DEFIBRILLATION

STEP 1

Call for medical assistance!

STEP 2 Lay the PAD on a flat surface.

STEP 3

Press ON/OFF Button and open the GREEN Tab of the soft carry case

The samaritan® PAD is activated and you hear the audio prompts:

CALL for medical assistance

Remove clothing from patients chest to expose bare skin

To safeguard against interference you must operate the PAD at least 2 m (6 feet) away from all RF devices and other susceptible equipment. Alternatively switch off equipment affected by or causing the electromagnetic interference.

STEP 4

Pull green tab to remove Pad

Grip the SECOND GREEN Tab of Pad-Pak™ and PULL.

STEP 5

Remove clothing to expose the patient's chest. If the patient has an excessively hairy chest, shave the area where the electrodes are about to be applied.

Peel pads from liner

Peel the electrodes from the liner ...

Apply pads to patient's bare chest as shown in picture

... and apply them to the bare chest as illustrated on the electrodes.

Press pads firmly to patient's bare skin

AEDSuperstore®

PERFORMING DEFIBRILLATION

Place the electrodes on the patients chest as indicated below. Sternum and Apex electrode pads are clearly identified on the respective electrodes.

Press the electrodes firmly to the patient's bare chest to ensure proper contact is made.

Placement of the pads is critical. Strict observance of pad positioning instructions, as indicated on the labelling and in training, is essential. Failure in pad adhesion may hinder effectiveness of therapy or cause excessive skin burns to the patient if a therapeutic shock is applied.

STEP 6

When the electrode pads are attached correctly to the patient you will hear the audio prompt:

Assessing heart rhythm

Do not touch the patient.

Stand clear of patient.

The do not touch indicator (below) on the PAD will be illuminated.

Touching the patient during the analysis phase of treatment can cause interference with the diagnostic process. Avoid contact with the patient while analysis is being carried out. The device will instruct you when it is safe to touch the patient.

NOTE

Follow audio guidance. Do not touch patient or allow any others to touch the patient while the PAD is analyzing. After completion of analysis the PAD will advise you of treatment recommended. Care must be taken to keep the patient still. A moving patient can lead to incorrect, delayed or less effective diagnosis and therapy.

AEDSuperstore®

PERFORMING DEFIBRILLATION

STEP 7

If the patient requires a therapeutic shock the PAD will start to charge. In such a scenario you will hear the following prompts.

Shock advised

Stand clear of patient

The samaritan® PAD delivers electrical shocks which can cause serious harm to operators and bystanders. Caution must be taken to ensure no-one is in contact with the patient when a shock is delivered.

STEP 8

When the PAD has charged to the required level you will hear the audio prompt:

The shock button will be flashing.

Press Shock button now

Ensure no-one is touching the patient. When you are certain that no-one is touching the patient press the shock button to deliver the therapy.

The samaritan® PAD will **only** administer a shock if it is needed.

AHA/ERC 2000 configuration

It's safe to touch the patient

Check for Airway

Check for Breathing

Check for Circulation

If needed begin CPR

If needed begin CPR!

The PAD will continue in a **3** escalating energy shock protocol with a one minute CPR interval.

The energy and CPR configuration of your device can be seen by reading the label situated on the front membrane: e.g.

STEP 9

Follow the voice prompts until the emergency services arrive.

AEDSuperstore® ALLIED 100™ company

AHA/ERC 2005 configuration

It's safe to touch the patient

Begin CPR

Begin CPR immediately!

The PAD will remain in CPR mode for **2** minutes. After 2 minutes of CPR you will hear the following audible prompt**:**

Stop CPR

The PAD will then return to Step 6. Ensure no-one is in contact with the patient and proceed as before.

NOTE PERFORMING CPR

When performing CPR watch and listen to the PAD. The "OK to touch indicator" will flash. The PAD may emit ***100*** beeps per minute as a guide to CPR when configured to do so.
100 is the recommended rate to perform compressions under AHA/ERC 2005 guidelines.

Your HeartSine dealer will have trained you in the particular SCA treatment protocol you have chosen. In all cases follow the audio and visual prompts given by your PAD.

NOTE USER AND BYSTANDER SAFETY

Do not touch the patient while the PAD is analysing or defibrillation therapy is in process. Defibrillation energy can cause injury.

As long as the defibrillator is used according to the directions, and no one is in contact with the patient when the Shock button is pressed, there is no risk of harm to the rescuer or bystanders. The samaritan® PAD cannot deliver a shock unless the electrodes are applied to someone whose heart is in need of a shock.

See **Warnings and Precautions** for more details.

AEDSuperstore® an ALLIED 100™ company

AFTER USING THE PAD

After using your samaritan® PAD HeartSine Technologies recommend you perform the following actions:

1. Use Saver™ software to download information about the therapy performed and store appropriately. *(If you do not have Saver software please contact your dealer who can arrange for the incident to be downloaded).*

2. Remove the used Pad-Pak™ from your samaritan® PAD and dispose of in a suitable manner. *(For recommended disposal methods please refer to section Pad-Pak™ disposal)*

3. Check the exterior of the samaritan® PAD for cracks or other signs of damage. Contact your distributor or HeartSine Technologies immediately if any damage is found.

4. Check the exterior of the samaritan® PAD for dirt or contamination. If needed clean device with approved cleaning products.

5. Check supplies, accessories and spares for damage or expiration. Replace immediately if any damage or expiration is found. Contact your local HeartSine approved dealer.

6. Install a new Pad-Pak™. Before installing the new PadPak™ check that its expiration date has not been exceeded.

7. After installation of the new Pad-Pak™. Check the Status Indicator. If the Status Indicator is not flashing refer to the troubleshooting section of this manual. If the problem persists, contact HeartSine or your local approved dealer for technical support.

8. Turn on the PAD and verify that the PAD operates in the correct manner i.e. audible prompt "Call for medical assistance" can be heard. Turn off the PAD.

9. Contacting HeartSine after use. At HeartSine we like to hear from our customers whenever they have any occasion to use any of our products, even if therapy is not delivered as part of the incident. This information is vital to the continued development and constant improvement we strive for in the treatment of sudden cardiac arrest.

TROUBLESHOOTING

Check expiry date of your Pad-Pak™. Change the Pad-Pak™ if expiry date has been exceeded.

- If the status indicator is still not flashing
  or
- a warning message is heard when samaritan Pad is turned on
  or
- If for any reason, you have suspicions that your PAD is not working correctly contact your authorised HeartSine dealer or HeartSine directly for support (**support@heartsine.com**).

WARNINGS AND PRECAUTIONS

The samaritan® PAD must be used by a person trained in its use.

The samaritan® PAD has the capability to deliver therapeutic electrical shocks. The electrical shock can cause serious harm to either operators or bystanders. Caution must be taken to ensure that neither the operators nor bystanders touch the patient when a shock is to be delivered.

To safeguard against interference you must operate the samaritan PAD 2 meters (6 feet) away from all RF devices and other susceptible equipment. Alternatively switch off equipment affected by or causing Electromagnetic Interference.

The samaritan® PAD has been designed to work on unconscious, non-responding patients. If the patient is responsive or conscious do not use the samaritan® PAD to provide treatment.

Touching the patient during the analysis phase of treatment can cause interference with the diagnostic process. Avoid contact with the patient while analysis is being carried out. The device will instruct you when it is safe to touch the patient.

It has been determined that the samaritan® PAD is safe to use in conjunction with oxygen mask delivery systems. However, due to the danger of explosion it is strongly advised that the samaritan® PAD should not be used in the vicinity of explosive gases. This includes flammable anaesthetics or concentrated oxygen.

The samaritan PAD must only be used on patients over 8 years old.

Proper placement of the samaritan® PAD pads is critical. Strict observance of pad positioning instructions, as indicated on the labelling and in training, is essential. Care must be taken to ensure pads are adhered to the patients' skin properly. Air pockets between the adhesive pad and skin must be eliminated. Failure in pad adhesion may hinder effectiveness of therapy or cause excessive skin burns to the patient if a therapeutic shock is applied. Reddening of the skin may appear after use, this is normal.

Periodic checks of this device must be undertaken to ensure among other things that the samaritan® PAD is not damaged in any way.

The Pad-Pak™ is a single use item and must be replaced after each use or if pouch that seals defibrillation pads has been broken/compromised in any way. If damage is suspected the Pad-Pak™ must be replaced immediately.

INCIDENT NOTIFICATION

As a user of an automated external defibrillator it is essential that you inform HeartSine of any incident where your PAD is suspected to have caused a death, serious injury or illness. If you have any suspicions that this is the case inform HeartSine directly or through your authorised HeartSine dealer.

GLOSSARY

Pad-Pak™
The Pad-Pak™ is a tray that fits into the samaritan® PAD. This pack contains the defibrillation electrodes and the battery that supplies power to the samaritan® PAD. Pull the green tab to access the defibrillation pads.

Biphasic Shock
A biphasic shock is an electrical current that is passed through the heart, firstly in one direction and then in another.

Defibrillation Pads
Defibrillation pads are the electrodes that are connected to the patient's chest in order to administer therapy.

Electromagnetic Interference
Electromagnetic interference is radio interference that may cause erroneous operation of electronic equipment.

Impedance Measurement
Impedance measurement is a check that is performed to check the integrity of PAD patient contact.

samaritan® PAD
The PAD is a semi-automatic device used for the delivery of external defibrillation therapy to resuscitate victims of SCA, who are unresponsive, are not breathing, or without life signs.

Saver™
Saver™ is software that can be used in conjunction with the PAD and a USB cable. It can retrieve and view information about therapy delivered using the samaritan® PAD. Also, Saver™ software can be used to configure the PAD.

SCOPE™
SCOPE™ stands for Self-Compensating Output Pulse Envelope Waveform. This is the biphasic technology developed by HeartSine that is incorporated into the samaritan® PAD.

Sinus Rhythm
Sinus Rhythm is the normal electrical rhythm by which the heart muscle contracts and expands to create blood flow around the body.

Ventricular Fibrillation
Is a life-threatening heart rhythm that is treatable with the therapy using the samaritan® PAD.

MORE INFORMATION
A copy of the detailed samaritan® PAD user manual is available online at **www.heartsine.com** or can be requested on CD (USA).

If you have had any occasion to use your samaritan® PAD or if you require any further information on the samaritan® PAD, its accessories or any other products please contact us.

ABBREVIATIONS

CPR
Cardiopulmonary resuscitation

CPR-D
Cardiopulmonary resuscitation-Defibrillation

SCA
Sudden cardiac arrest

VF
Ventriculary Fibrillation

BLS
Basic Life Support

ACLS
Advanced Cardiac Life Support

PRODUCT LIST *(SELECTION)*

PAD DEVICES		
	PAD-BAS-00	PAD Basic Life-Saver System, **AHA/ERC 2000** Guidelines
	PAD-BAS-05	PAD Basic Life-Saver System, **AHA/ERC 2005** Guidelines
	PAD-DAT-00	PAD with Data Management Package, AHA/ERC 2000 Guidelines
	PAD-DAT-05	PAD with Data Management Package, AHA/ERC 2005 Guidelines
	PAD-FIR-00	PAD *First Responder,* AHA/ERC 2000 Guidelines
	PAD-FIR-05	PAD *First Responder,* AHA/ERC 2005 Guidelines
	PAD-TRN-00	PAD with Trainer Kit, AHA/ERC 2000 Guidelines
	PAD-TRN-05	PAD with Trainer Kit, AHA/ERC 2005 Guidelines
DISPOSABLES		
	PAD-PAK-01	Pad-Pak™ ADULT Cartridge
	PAD-PAK-02	Pad-Pak™ PAEDIATRIC Cartridge (middle of 2006)
DATA MANAGEMENT & ACCESSORIES		
	PAD-ACC-01	USB Cable with SAVER™ Software CD ROM & License
	PAD-ACC-02	USB Data Download Cable
	PAD-ACC-03	SAVER™ Software (SAVER Software CD ROM & License)
	PAD-ACC-04	Triangular Wall Sign (AED Wall Sign. Includes Triangular Wall Mount)
	PAD-ACC-09	PAD Prep Kit
	PAD-ACC-16	Resuscitation Bag with O_2 Connection and Adult Mask
TRANSPORT & CASES		
	PAD-BAG-01	Soft Carrying Case
	PAD-BAG-02	Hard Carrying Case (Pelican Yellow Hard Case with Foam Insert)
	PAD-BAG-03	First Responder Rucksack (PAD CODRA Rucksack, Red, Light Version)
	PAD-BAG-04	Professional Rescuer Rucksack (PAD CODRA EMC)
	PAD-CAB-01	Rescue Cabinet with Alarm - Basic
	PAD-CAB-02	Wall Bracket - samaritan® PAD
	PAD-CAB-03	Vehicle Mount (USA/UK)
TRAINING SYSTEMS & LITERATURE		
	TRN-BAS-00	PAD Training System, AHA/ERC 2000 Guidelines
	TRN-BAS-05	PAD Training System, AHA/ERC 2005 Guidelines
	TNR-PAK-01	Replacement Trainer-Pak
	TNR-PAK-02	Replacement Battery Charger
	TNR-PAK-03	Trainer Pads (set of 10)
	TNR-ACC-01	AHA Instructor Guidelines 2005 (x25)
	TNR-ACC-04	AHA Provider Guidelines 2005 (x25)

PLEASE ASK FOR MORE INFORMATION AND ACTUAL PRODUCT LIST

Worldwide Headquarters:
HeartSine Technologies Inc
105 Terry Drive
Newtown
PA 18940 - USA

Tel: 1.215.860.8100
Fax: 1.215.860.8192

Manufactured by:
HeartSine Technologies Ltd
Canberra House
203 Airport Road West
Belfast BT3 9ED - Northern Ireland

Tel: +44 (0)28 9093 9400
Fax: +44 (0)28 9093 9401

CE
0120

Authorised Distributor

support@heartsine.com
www.heartsine.com